



ForceNet

Challenges for the Technical Publication Community



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Background

ForceNet is the “*Connective Tissue*” for Sea Power 21

- What does ForceNet mean to Tech Manuals and TMMAs?
- What process must be improved to effect ForceNet?
 - How do we improve documentation speed-to-capability?
 - How do we improve ILS quality?
 - How do we decrease documentation costs?
- What are the ILS issues associated with ForceNet Fleet Readiness?

The TM Community Must Evolve to Support SeaPower 21

What is SPAWAR /PEO C4I-S Doing About It?

- SPAWAR 04: Taking the initiative to transform logistical products to support ForceNet
 - Web Based Infrastructure – Horizontal Integrated Data Environment
 - Virtual Document / XML Content development for IT-21
 - Supporting ILE in Tech Data / Training Content Integration
 - Revising policy and business process instructions
 - ILS Certification
 - TMMA (4160.4)

The Navy's Vision

Sea Shield

Sea Power 21

FORCEnet

Sea Strike

Sea Basing



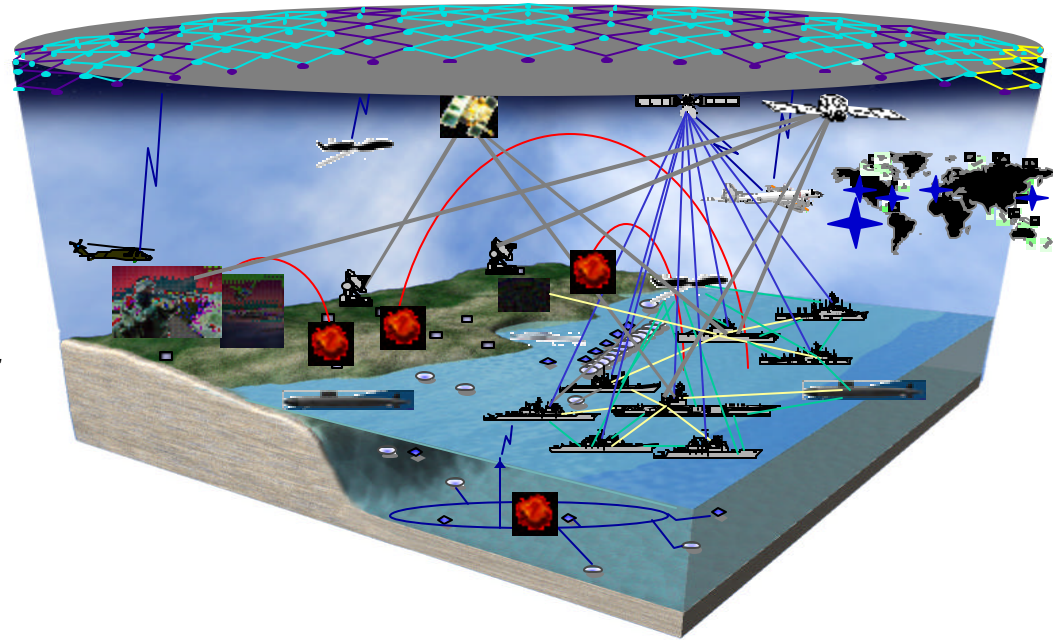
FORCEnet Overview

Network Centric Warfare is the theory.

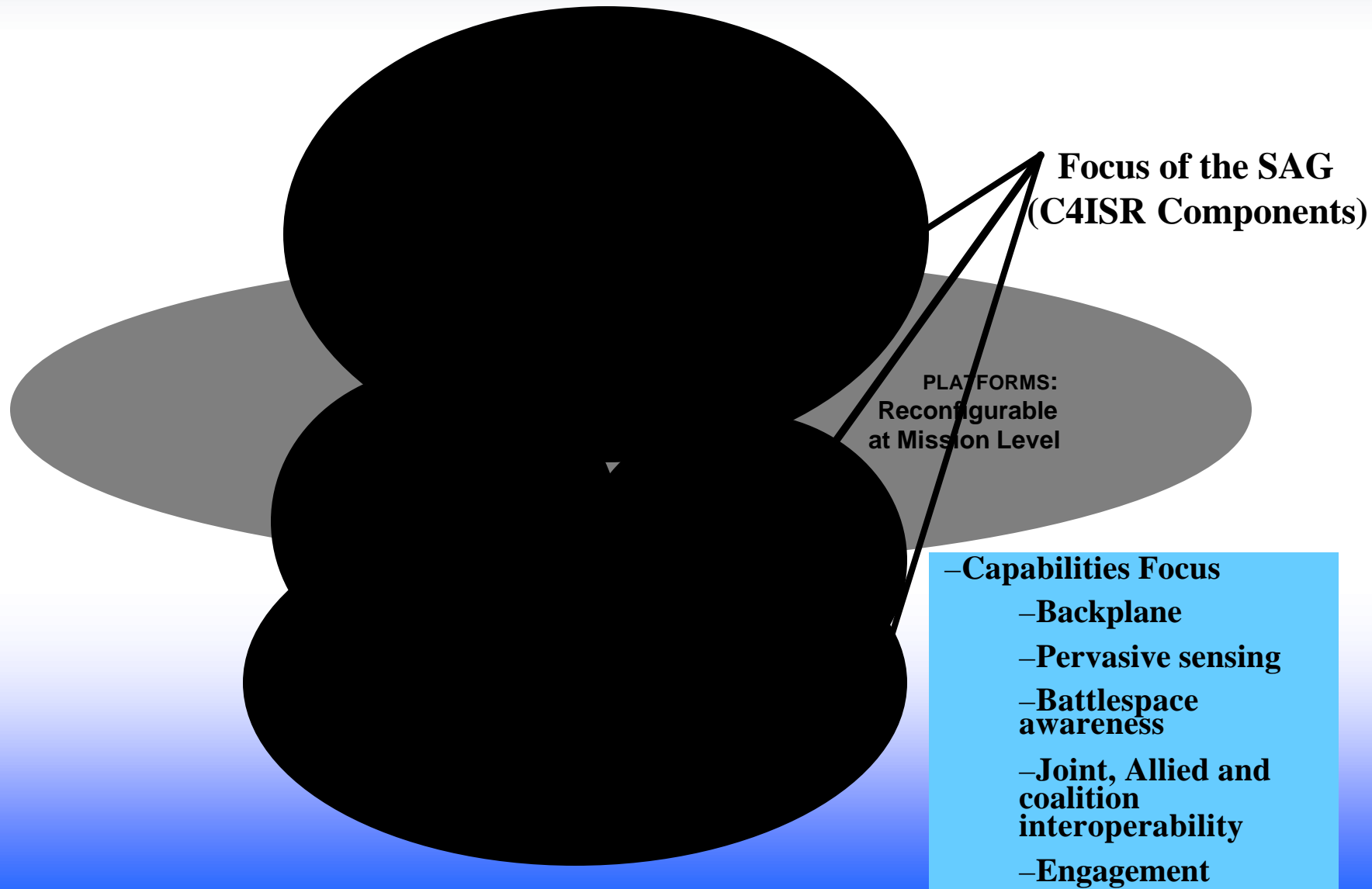
Net-Centric Operations is the concept.

FORCEnet is the process of making the theory and concept a reality.

*“FORCEnet is the operational construct and architectural framework for Naval Warfare in the Information Age which integrates Warriors, sensors, networks, command and control, platforms and weapons into a networked, distributed combat force, scalable across the spectrum of conflict from seabed to space and sea to land.”**



FORCEnet System Components

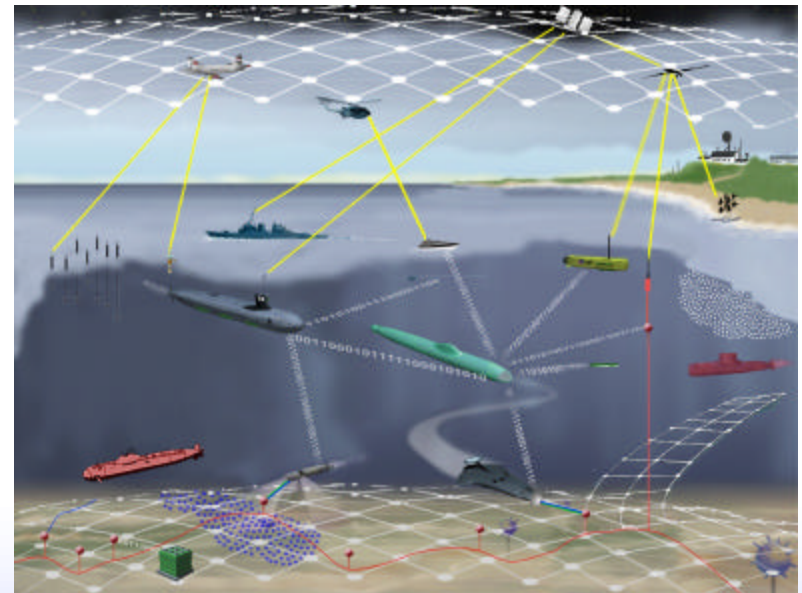


FORCEnet HUMAN ELEMENT

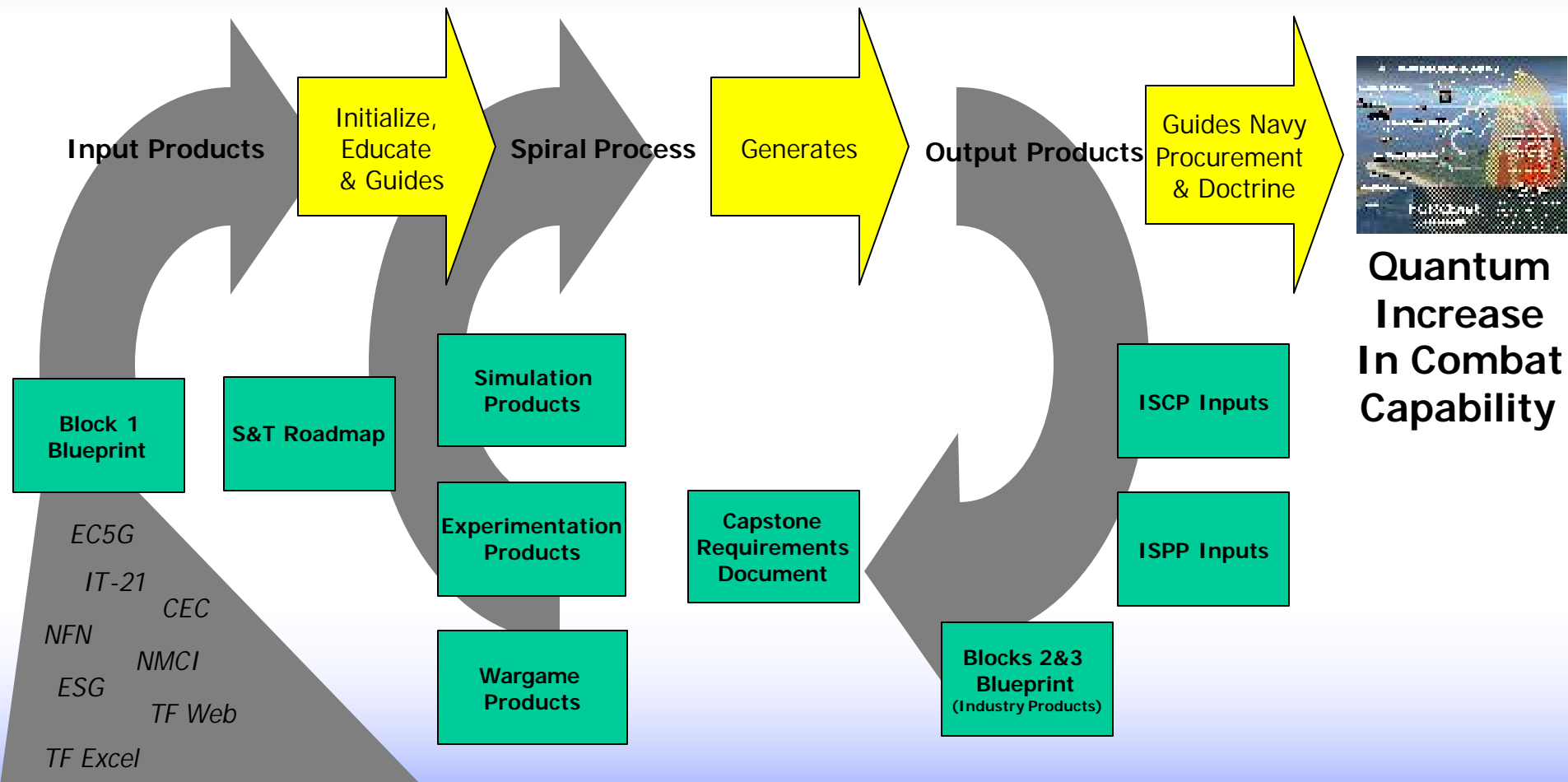
- Provide the Fleet with highly skilled, trained, and continuously educated teams
- Task Force Excel and Sea Warrior
- Recruit, train, educate and retain skilled Sailors and Officers
- Create challenging learning opportunities with flexible incentive packages
- Technical Data must support the Fleet user's operational and training requirements

Functional Requirements for Distributed Networking

- **Roles, Responsibilities, and Constructs necessary to make FORCEnet a reality**
 - Experimentation
 - Tech Development
 - Engineering Distributed Systems
 - Joint Operations
 - Joint Logistics
 - Warrior Preparation/Design
 - Acquisition & Fleet Introduction



FORCEnet Spiral Acquisition Process



TD Required Changes

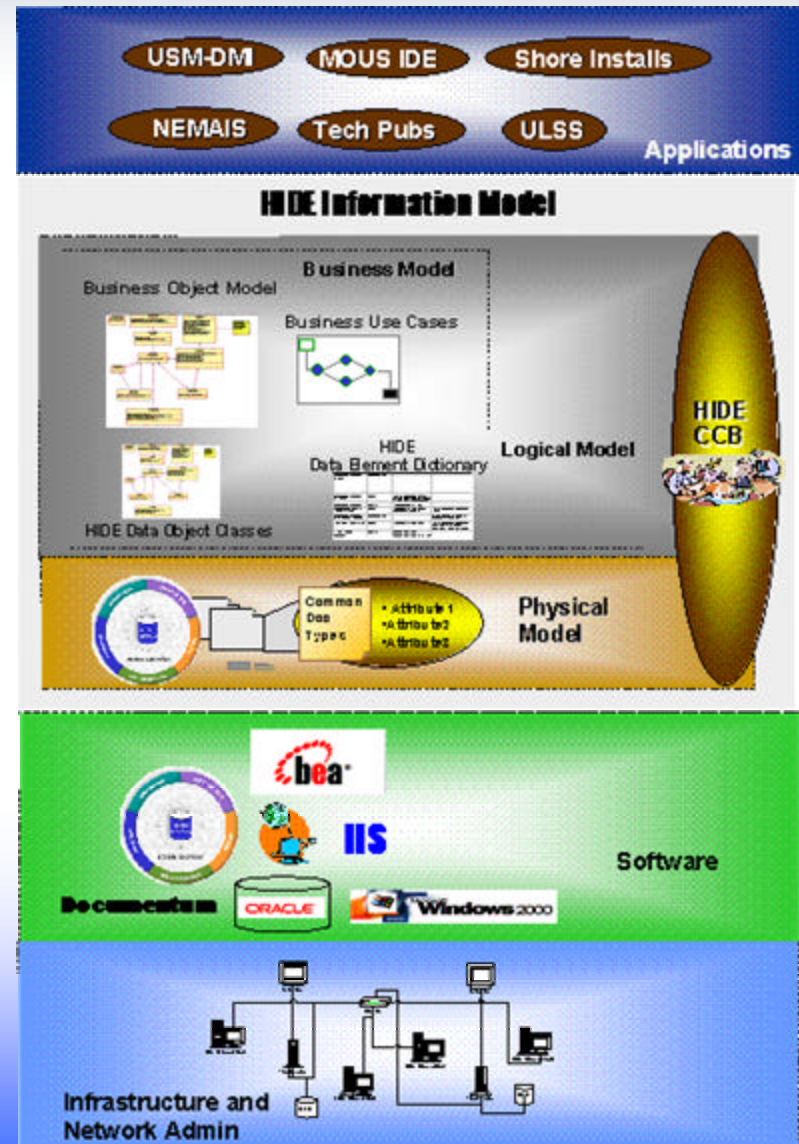
- Transform the way we think of “technical data”
- Technical Manuals can no longer be handled as monolithic documents
- 21st Century IT makes possible
 - Publishing authoritative, up-to-date data
 - With technical “content”
 - In granular, reusable “knowledge objects”
 - A means for our users to locate the right technical data at the right time
- Integrated Tech Data with HSI
- Fleet Integrated Product Development (IPD) Assessment
 - Supporting ForceNet means being able to develop and delivery ILS support packages rapidly.
 - Current tech data management paradigm - *too slow*

Changing the Paradigm

- SPAWAR 04: Taking the lead to logistically support ForceNet
 - Infrastructure – Horizontal Integrated Data Environment
 - Virtual Document / XML Content development for IT-21
 - Supporting ILE in Tech Data / Training Content Integration
 - Revising instructions
 - ILS Certification (4105.1)
 - TMMA (4160.4)

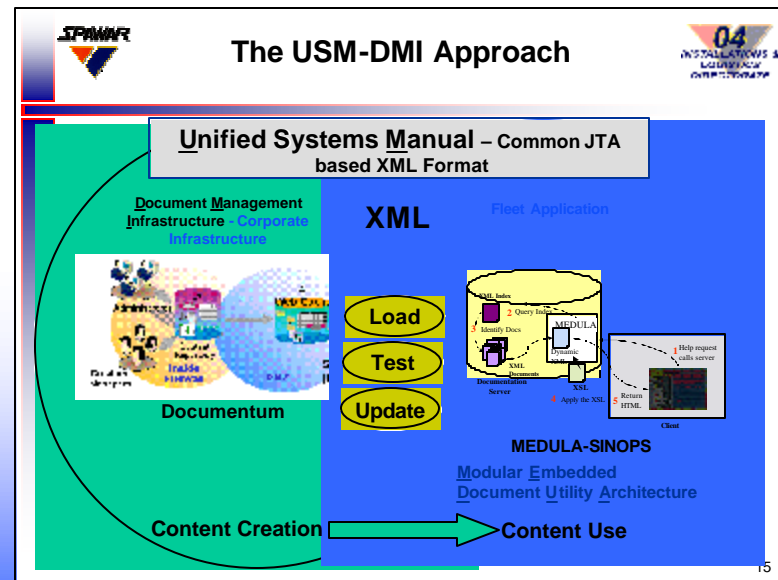
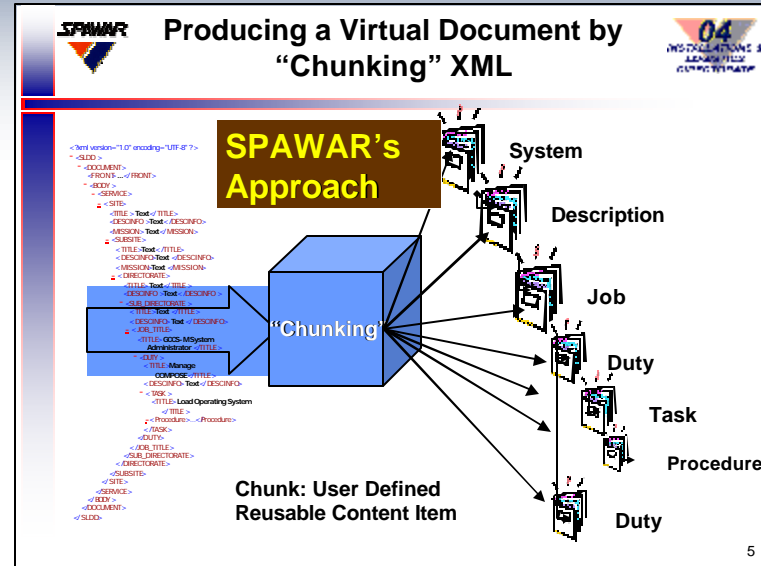
The Horizontal Integrate Data Environment (HIDE)

- HIDE provides a hardware and software infrastructure for enterprise content management and sharing
- Capable of sharing virtual document / chunks of data using XML
- HIDE will be discussed in more detail during this conference



XML, Virtual Documents and USM-DMI

- Virtual Document concept is a new paradigm for meeting 21st century information requirements
- USM-DMI is SPAWAR's initiative to create IT-21 systems integrated content using HIDE, XML and virtual documents



SUMMARY

- FORCEnet is the foundation for Sea Power 21
 - FORCEnet operations require a highly networked force supported by advances in information age capabilities
 - FORCEnet must include the Human Element - 21st Century Warrior
 - FORCEnet is not hardware or a box
- Will evolve as technologies allows
- Implementing FORCEnet requires new implementation strategies and spiral development approach
- ILS transformation is key to ForceNet success

A FULLY NETTED FORCE + 21ST CENTURY WARRIOR = FORCENET